

**ABSTRACT**

**An optical film for a liquid crystal display of the invention**

5   **laminated a polarizing plate and a retardation film so that an absorption axis of the polarizing plate and a slow axis of the retardation film are perpendicular or parallel to each other,**

10   **wherein the polarizing plate comprises a transparent protective film on both surfaces of a complex type scattering-dichroic absorbing polarizer including a film that has a structure having a minute domain dispersed in a matrix formed of an optically-transparent water-soluble resin including an absorbing dichroic material, and the transparent protective film satisfies that an in-plane retardation  $Re_1 = (nx_1 - ny_1) \times d_1$  is 10 nm or less and a**

15   **thickness direction retardation  $Rth = \{(nx_1 + ny_1)/2 - nz_1\} \times d_1$  is in the range of from 30 nm to 100 nm; and the retardation film satisfies that an Nz value represented by  $Nz = (nx_2 - nz_2)/(nx_2 - ny_2)$  is in the range of from 0.1 to 0.8 and an in-plane retardation  $Re_2 = (nx_2 - ny_2) \times d_2$  is in the range of from 60 to 300 nm.** The

20   **optical film for a liquid crystal display has a high contrast ratio over a wide range, a high transmittance, and a high degree of polarization and in which uneven transmittance can be suppressed when black viewing is displayed, and capable of realizing a better view in a case where the optical film is applied to a liquid crystal display driving in IPS mode.**